

Stafford County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/28/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 17 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Stafford County economy.¹

These 17 sectors have a total direct output of approximately **\$243.4 million** and support **724 jobs** in Stafford County. Running the model for all 17 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Stafford County Economy					
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵
Direct Effect	723.5	28.30%	\$61,084,274	31.37%	\$243,370,028
Indirect Effect	131.0	5.12%	\$11,545,575	5.93%	\$23,543,267
Induced Effect	72.2	2.82%	\$4,160,901	2.14%	\$8,921,451
Total Effect	926.8	36.24%	\$76,790,749	39.44%	\$275,834,745

As shown in the above table, agriculture, food, and food processing sectors support **927 jobs**, or **36.24%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 17 agriculture, food, and food processing sectors is approximately **\$76.8 million**, or **39.44% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

<https://implanhelp.zendesk.com/hc/en-us/articles/115002801513-Considerations-of-Contribution-Analysis>

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **343 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Stafford County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	342.6	\$70,324,396
Support activities for agriculture and forestry	124.0	\$5,648,628
Grain farming	118.0	\$71,028,580
All other crop farming	36.2	\$4,542,334
Other animal food manufacturing	28.1	\$33,616,520
Wholesale trade	26.9	\$4,745,137
Monetary authorities and depository credit intermediation	19.1	\$4,148,025
Oilseed farming	18.8	\$31,136,808
Flour milling	17.9	\$20,668,904
Animal production, except cattle and poultry and eggs	16.4	\$2,884,623

The grain farming sector directly contributes approximately **\$71.0 million** to the Stafford County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

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Monetary authorities and depository credit intermediation	19.1	\$4,148,025
Extraction of natural gas and crude petroleum	11.8	\$3,715,476

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Stafford County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	18.8	\$31,136,808.40
Grain farming	118.0	\$71,028,579.71
Vegetable and melon farming	1.4	\$240,024.72
Fruit farming	0.3	\$19,494.59
Tree nut farming	0.0	\$9.73
Greenhouse, nursery, and floriculture production	2.9	\$351,438.94
Cotton farming	12.5	\$2,670,831.92
All other crop farming	36.2	\$4,542,333.60
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	342.6	\$70,324,394.23
Poultry and egg production	0.1	\$47,045.26
Animal production, except cattle and poultry and eggs	16.4	\$2,884,623.29
Commercial logging	1.7	\$45,294.93
Commercial hunting and trapping	1.7	\$32,474.04
Support activities for agriculture and forestry	124.0	\$5,648,627.76
Other animal food manufacturing	28.1	\$33,616,519.93
Flour milling	17.9	\$20,668,903.35
Bread and bakery product, except frozen, manufacturing	1.0	\$112,621.07

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Stafford County, the retail sector was omitted.